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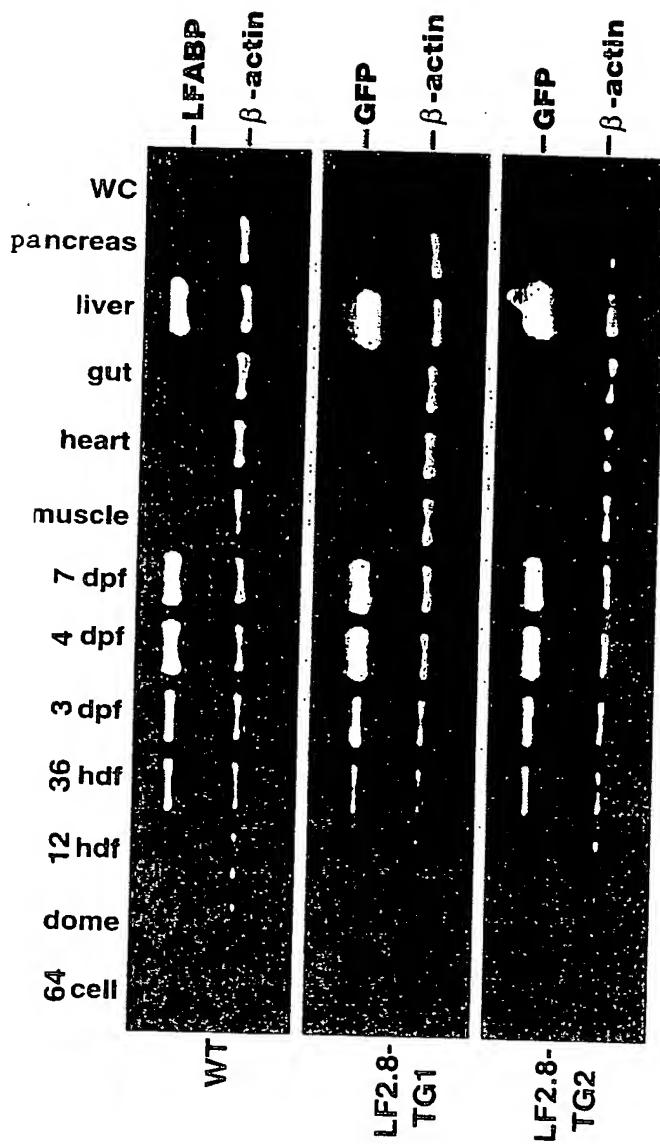


Figure 1

Inventor: Jen-Leih WU et al.  
 Title Transgenic Fish Germinal Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
 Attorney Docket No.: 33151-188802

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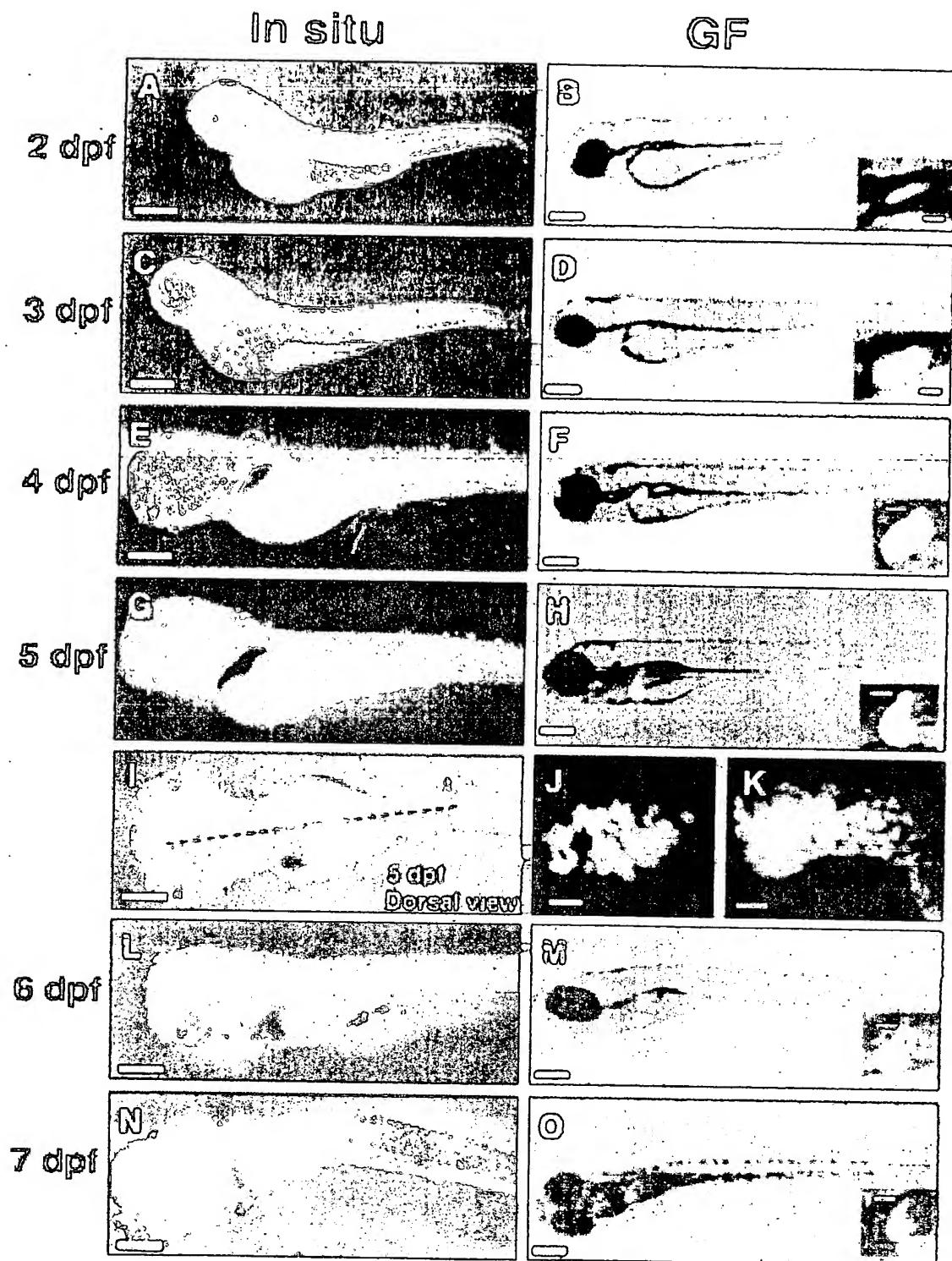


Figure 2

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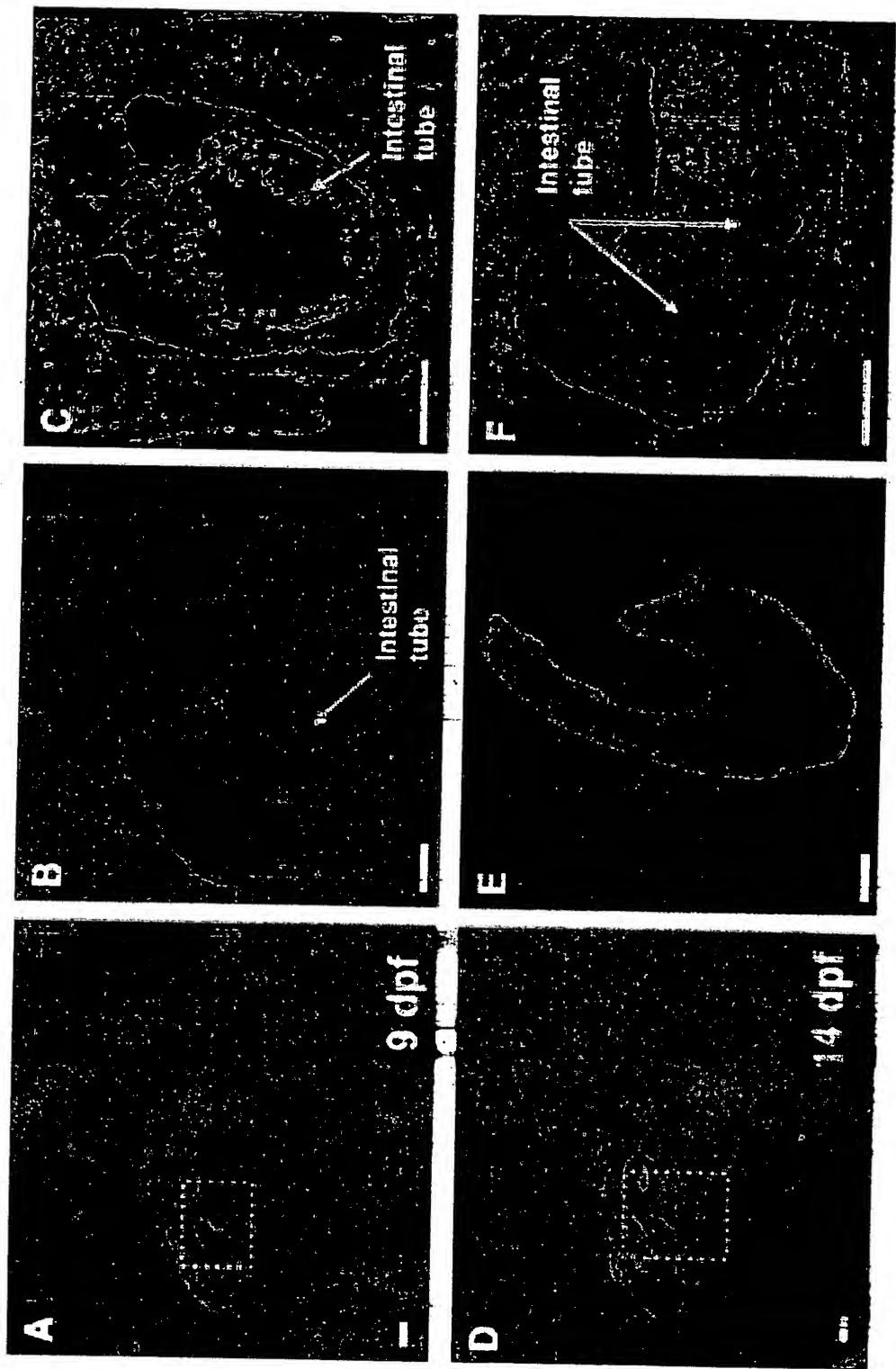


Figure 3

Inventor: Jen-Leih WU et al.  
Title Transgenic Fish Germline Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
Attorney Docket No.: 33151-188802

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Applicant(s) The re of

Acid

Bim

Protein

(L-FABP)

Gene

Promoter and

Title: Transgenic Fish Germline Expression Drive by Liver Fatty Acid Bimodifying Protein (L-FABP) Gene Promoter and

Inventor: Jen-Lieh WU et al.

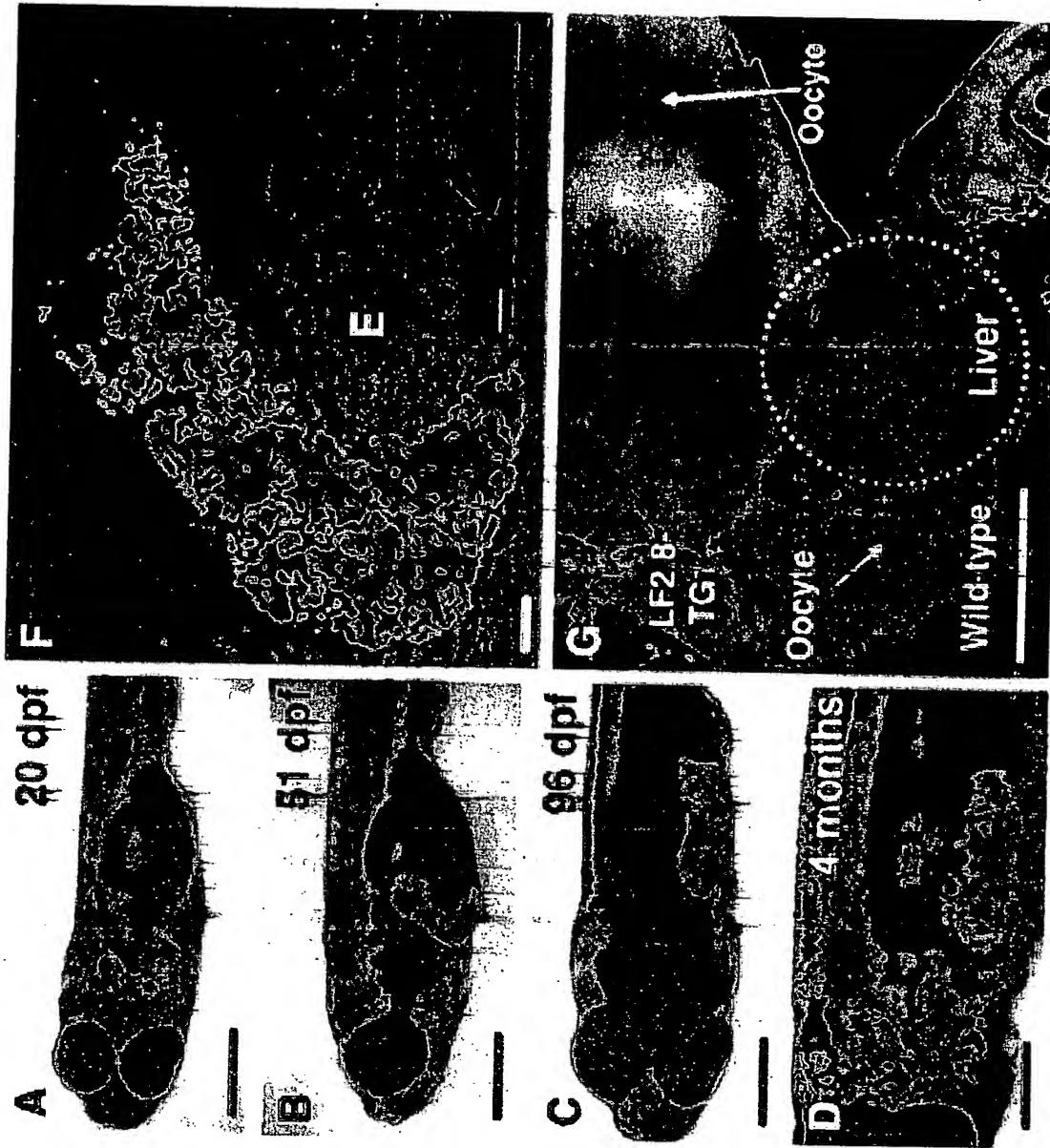


Figure 4

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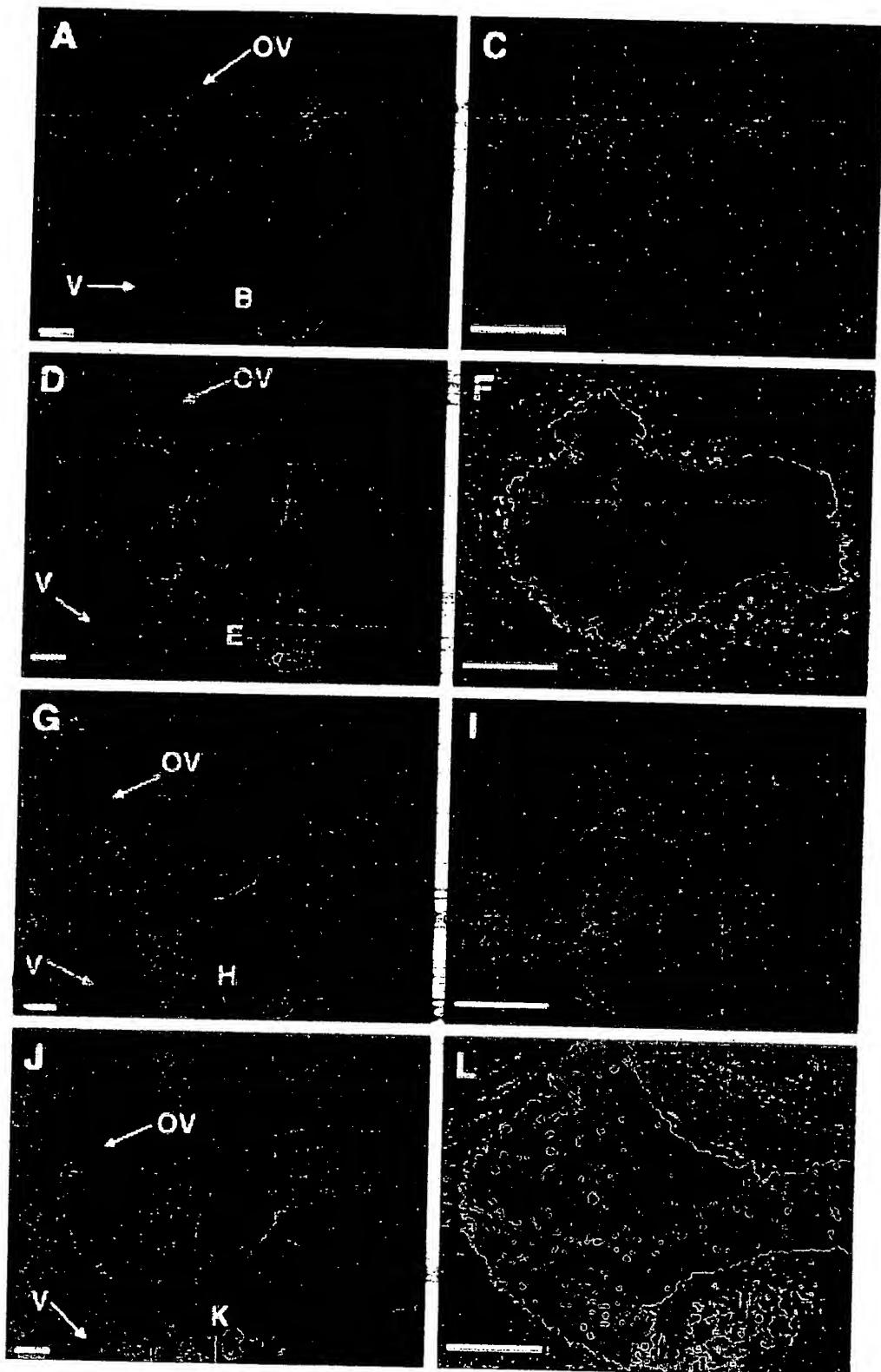


Figure 5

Inventor: Jen-Leih WU et al.  
Title Transgenic Fish Germline Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
Attorney Docket No.: 33151-188802

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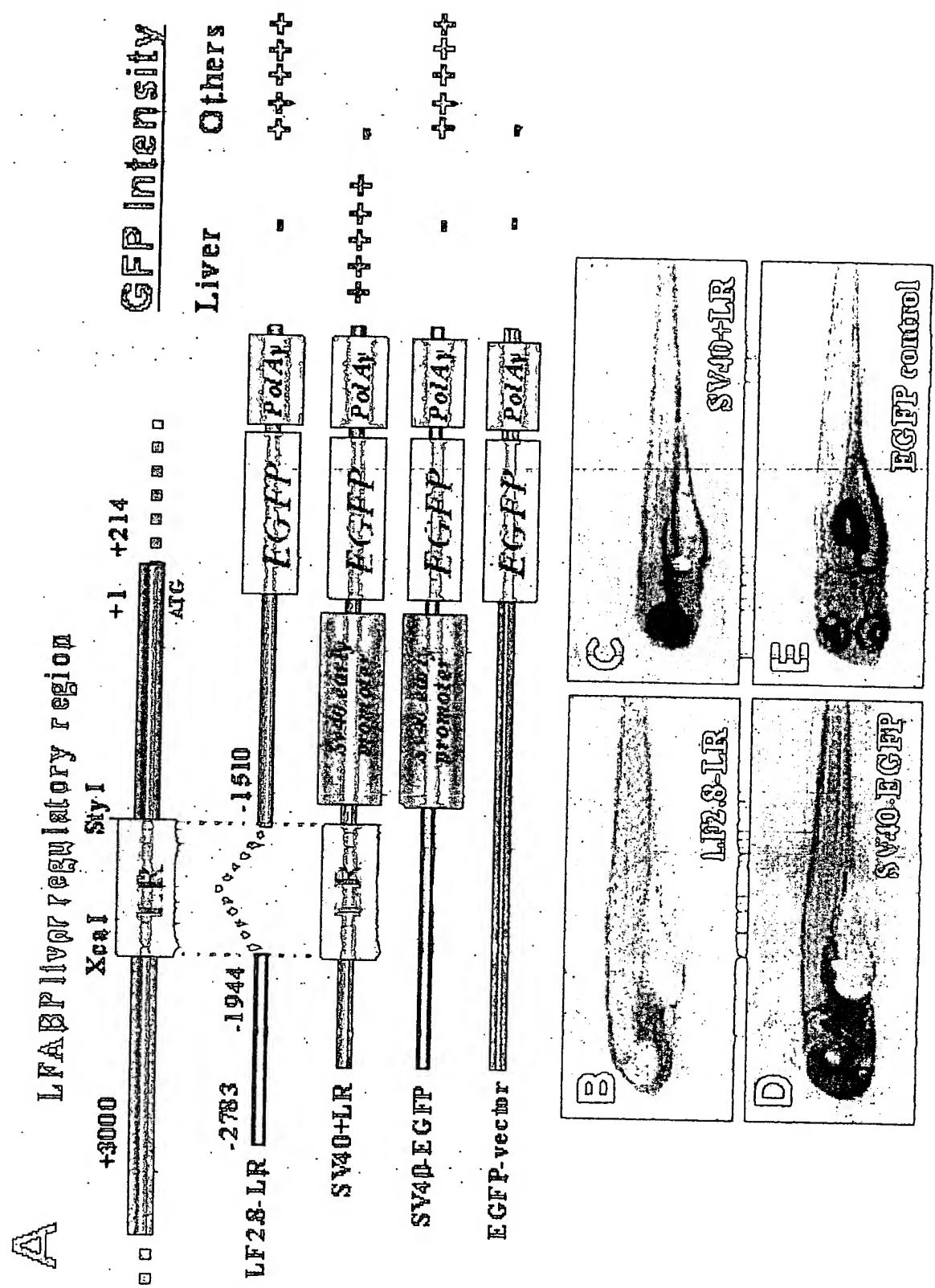
(SEQ ID NO: 2)

Figure 6

Figure 7 (SEQ ID NO: 27)

Inventor: Jen-Leih WU et al.  
Title Transgenic Fish Germline Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
Attorney Docket No.: 33151-188802





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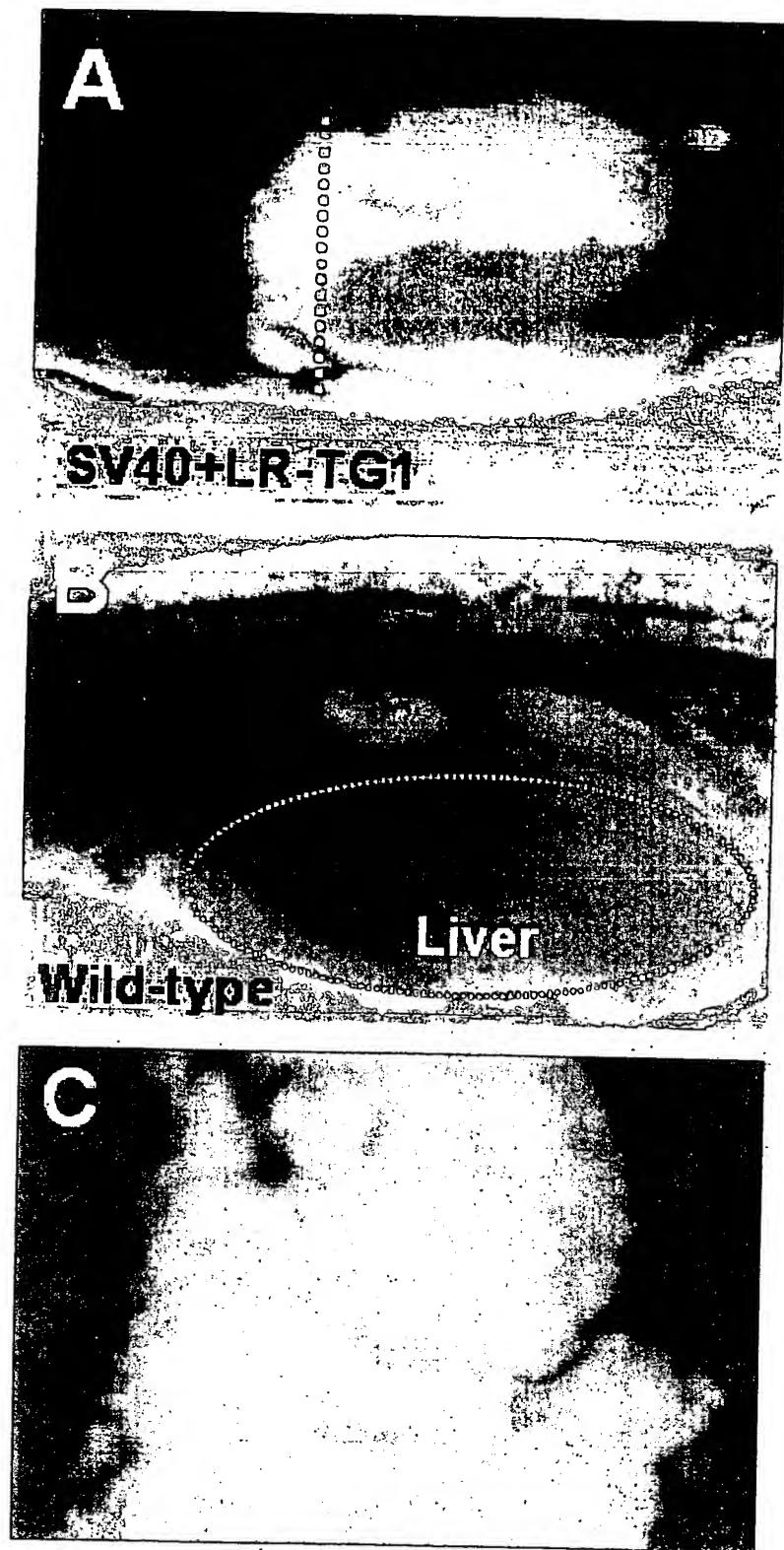


Figure 10

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Inventor: Jen-Leih WU et al.  
Title Transgenic Fish Germline Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
Attorney Docket No.: 33151-188802

## Liver regulatory element

Figure 11

(SEQ ID NO:1)  
-1510

Inventor: Jen-Leih WU et al.  
Title Transgenic Fish Germline Expression Drive by Liver Fatty Acid Binding Protein (L-FABP) Gene Promoter and Applications Thereof  
Attorney Docket No.: 33151-188802

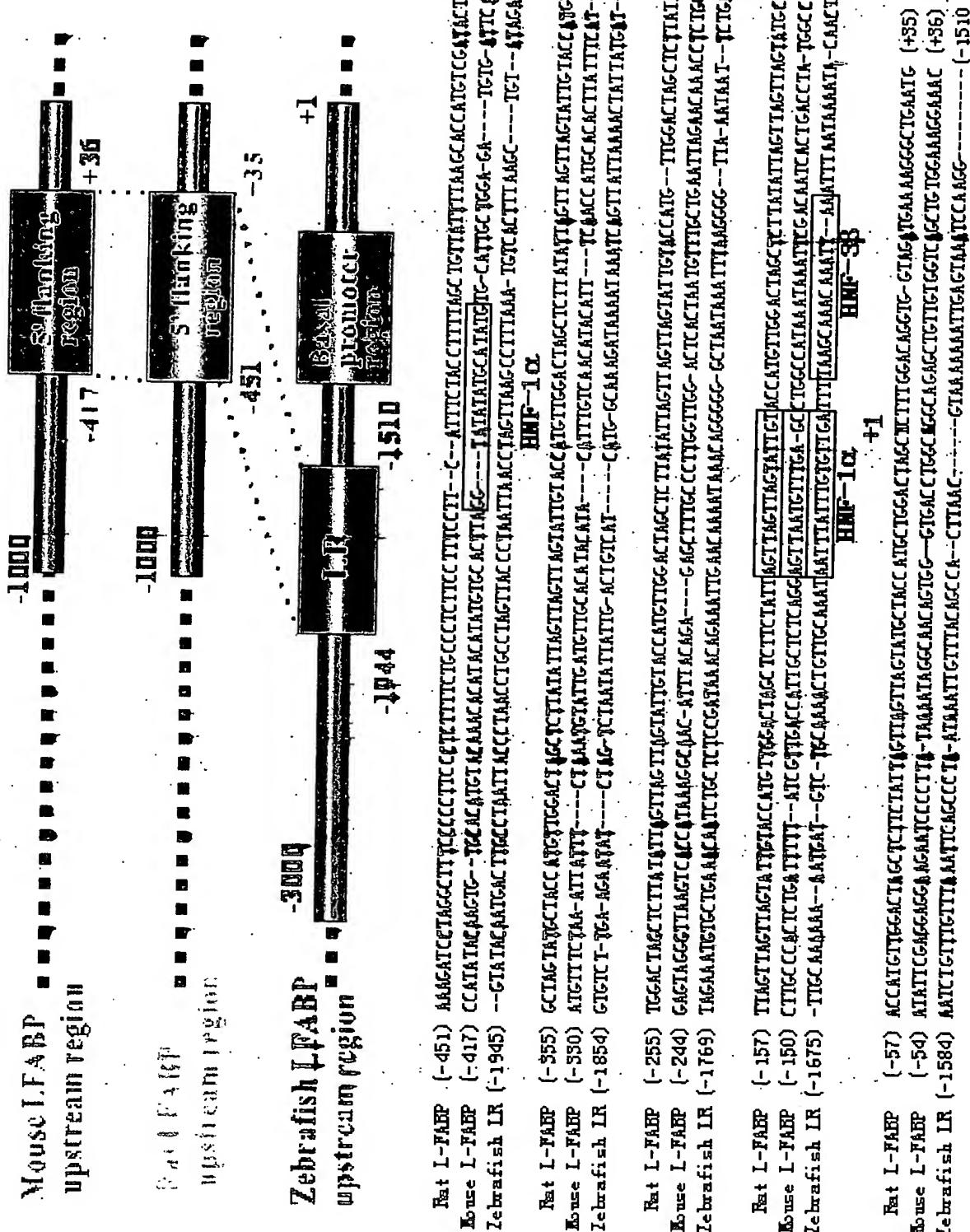


Figure 12

-1983 AAGCTATTT TTTTCGATAG TCTACAGAAC AACACATGG TATACAATCGCTGCTTACG CTCGCGTATTCGCTTACG TGCCCPGTGTA  
 PDX1/TISL1(1)  
 -1903 CCCTTACG CCCTTACG CCTTAAATG TCACTTAAAG CTGTATAGA GTGTCGTAA GATATCTAG TCTAATTTA  
 PDX1/TISL1(2)  
 -1823 TGTACGTCA TCATCGGCAAG GTAAAAATAA ATCAGTAAAT AACACTATA TGATTAAAA TGTCTGAA AACAGTGTCT  
 -1743 CCCTTACG CCCTTACG CCTTAAATG CCTTACG CCTTAAATG AACAGTGTCTTAAATGAA AACAGTGTCT  
 HNF(1)  
 HNF(2)  
 -1663 TGTATGCTCC AACAACTGTTC CAAATTTGCTTC ATTTTGGAA AACATTAATGAA ATTAAAAA ATACAATTAA  
 HNF - 1 $\alpha$   
 HNF - 3 $\beta$   
 -1583 ATCT GTTT GT TAAAATTCAAG CCTTAAAA TTTTTACAG CCACTTAACG TAAAATTTT GAGTAAATCC AACGAATCA  
 (SEQ ID NO: 30)

A

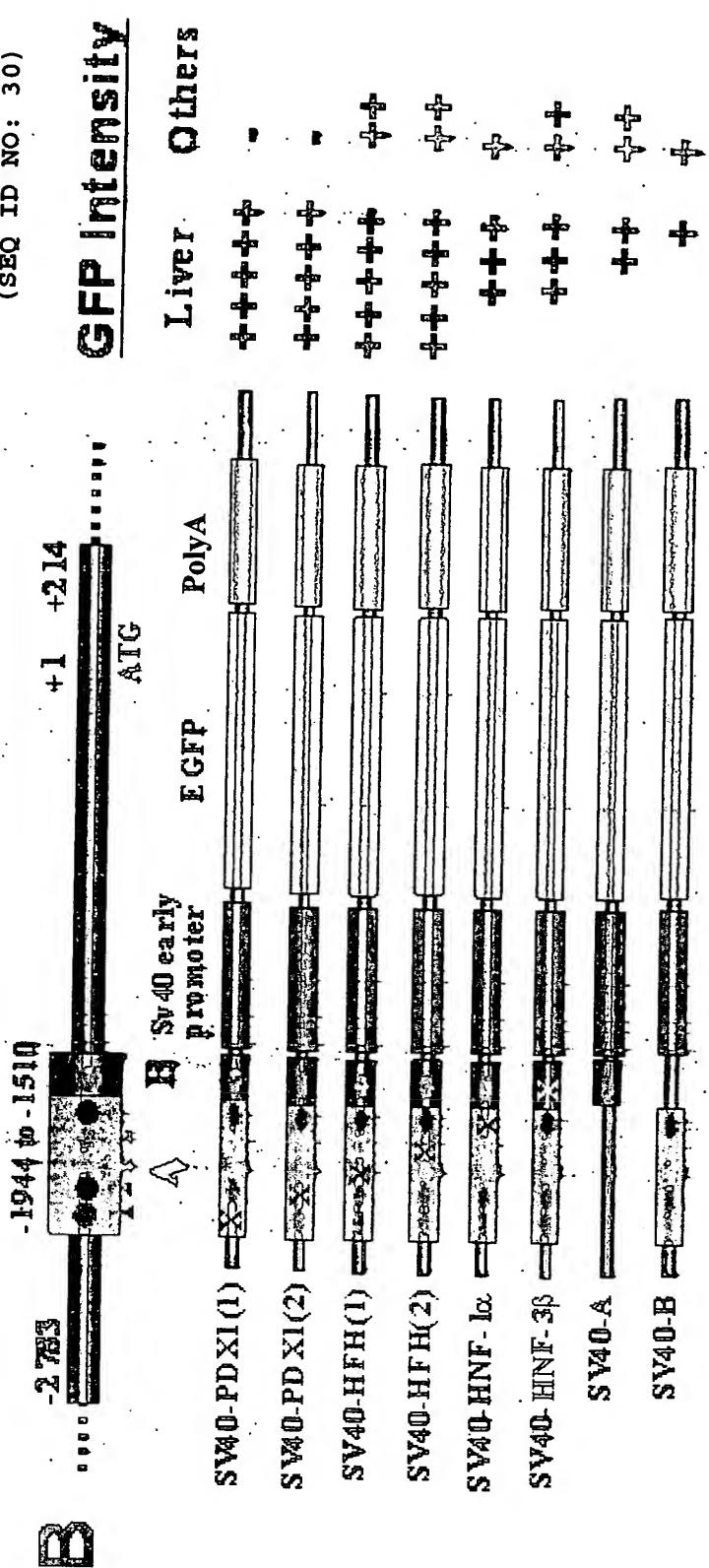


Figure 13

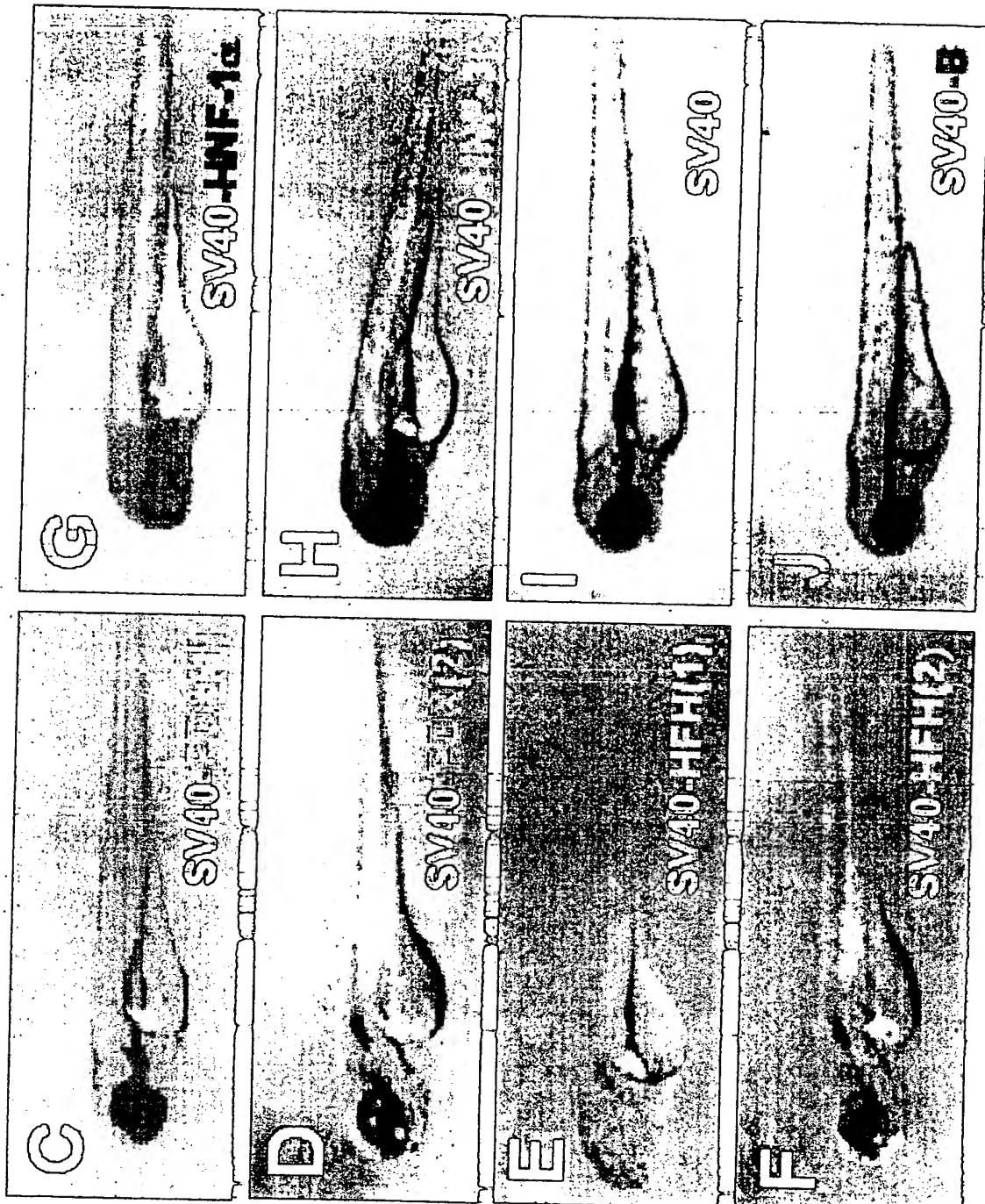


Figure 13 (continued)

Inventor: Jen-Leih WU et al.  
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Attorney Docket No.: 33151-188802

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